

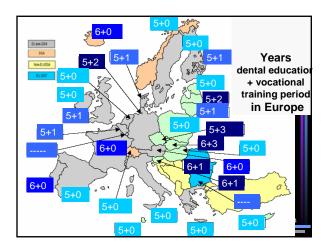
Issues to be addressed:

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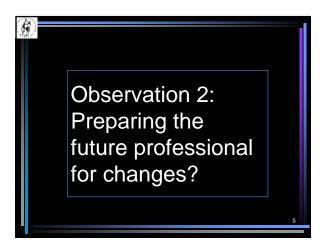
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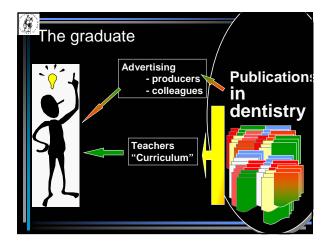
- Meaningful goals for the education of dental students
- 2. The concept of a minimum curriculum
- 3. The use of competencies
- Challenge faced in Europe to achieve harmonisation of EEC member countries

Observation 1: Why variation in education period?











The graduate

 Has been taught and can perform many basic procedures - not necessarily the most modern

 No hands-on experience with many procedures common in modern dental

clinics

 from where and how can further training be obtained?

Theoretic knowledge at zenith, from now on

- less time for reading / question of priorities
- Already from day 1 the science in dentistry
- advances further how to stay updated?

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Do we prepare future colleagues to change behavior, attitude and techniques in light of new knowledge?

The case of the impacted third molar

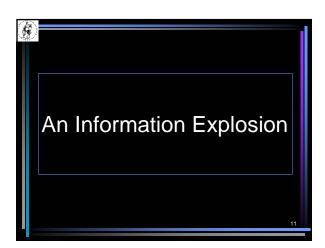
RATIONALE: In recent years, several critical outcome studies concerning prophylactic removal of mandibular third molars have been published. These would appear to motivate a more restrictive approach.

AIM: Examine dentists' decisions on the prophylactic removal of impacted mandibular third molars over a 10-year period.

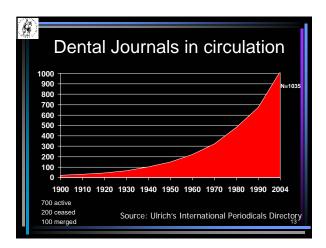
- METHODS: 36 cases selected, equal distribution of gender and ages, angular position and degrees of impaction. 26 GDPs and 10 oral surgeons judged the same cases on two occasions 10 years apart. RESULTS: No difference in the mean number of molars designated for removal between the two occasions. Considerable inter-individual variation in removal rate, between 0 and 25 molars
- CONCLUSION: There is no change over the last 10 years towards a more non-interventionist attitude. Dentists seem not to have been influenced by the evidence that this intervention is not cost-effective.

nutsson et al. Dentists' decisions on prophylactic removal of mandibular third molars: a 10-year follow-up study. Comm Dent Oral Epidemiol 2001, 29:308-194 Observation 3: Preparing the future professional for new information?

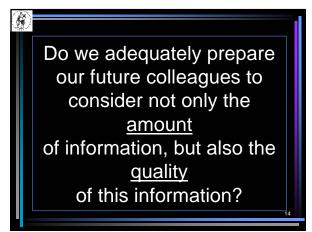
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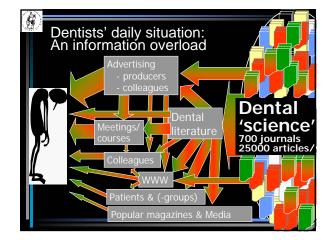














Information <u>is not synonymous</u> to knowledge <u>and even less so to</u> clinical competence

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Observation 4: Preparing the future professional to be able to critically appraise new information – i.e. to gain new knowledge?

 Meaningful goals for the education of dental students



 Prepared for acting in our age of information and continual changes?



Suggestion: Educational strategy

Premise: Politically difficult to expand curriculum and length of study

Problem based learning - PBL

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- Focus on "why"s instead of "how to"s
- Motivate on need for life-long learning
- Teach critical appraisal of new information
- Prepare how to meet tomorrow's
- knowledgeable patients' needs and requests

Schools of Dentistry applying a PBL approach

U. Liverpool, England; U. Malmö, Sweden; U. Oslo, Norway; Trinity U., Dublin, Ireland Hong Kong U.; National U. Singapore; U Thammasat, Thailand;

U. of Adelaide, Queensland U, U Sydney, U. California, Colorado, Columbia, Harvard School of Dental Medicine, Indiana, Pennsylvania, U. Southern California, U. Southern Illinois,

Problems & Barriers

Resources required

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- Instructors (GPs) often selected as tutors

 Pragmatists
- Learning intensive
- Students' use strategies to avoid PBL
- Integration of clinical disciplines versus basic sciences
- Clinical cases ending up as the "problem"
 not the education need

Create a reflective practitioner

- Personal development plan parallel to the progress plan
 - Training to be critically aware of what is happening
 - Document evidence to show that they've thought about

(Strategy Leeds)

Bridging the gap 5+2, UK, 1999

2. Minimum curriculum concept

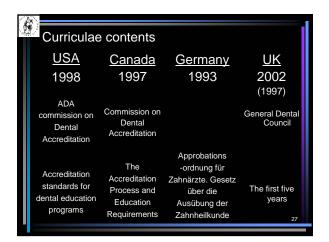
E.g. Dental directive (EC/78/687): Minimum training

- 5 years & Core curriculum consisting of:
- 1. Basic subjects

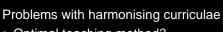
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- chemistry, physics, biology 2. Medico-biological subjects and general medical subjects anatomy, embryology, histology, cytology, physiology, biochemistry, pathology, pharmacology, microbiology, hygiene, preventive medicine, epidemiology, physiotherapy, general surgery & medicine, oto-rhino-laryngology, dermato-venereology, general psychology, psychopathology, neuropathology
- 3. Subjects related to dentistry prosthodontics, dental materials and equipment, conservative, preventive, anaesthetics and sedation, special surgery, special pathology, clinical practice, paedodontics, orthodontics, periodontics, radiology, occlusion and function of the jaw, professional organisation, ethics and legislation, social aspects of dental practice







Optimal teaching method?

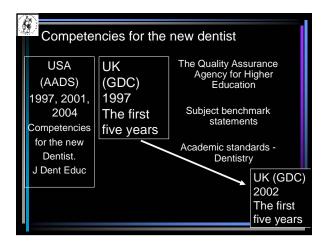
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- Volume of theoretical vs clinical learning?
- Methods for assessment of competency?

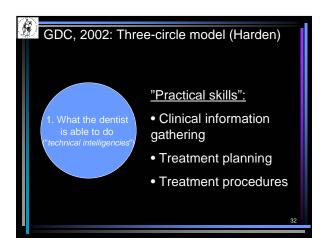
Example from the Nordic countries: Scandinavian Society for Prosthetic Dentistry, Educational Committee

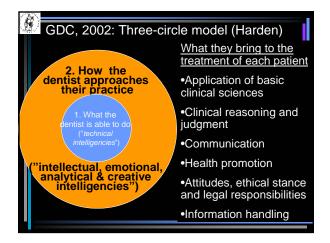
3. Minimum competency concepts

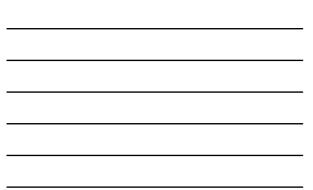


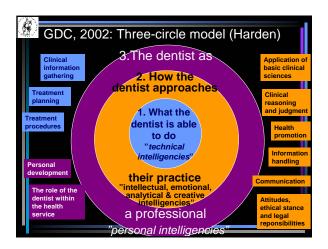








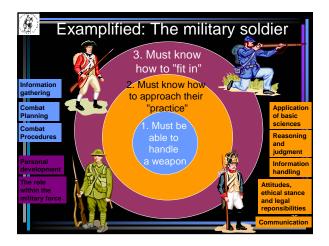






<u>A misconception:</u> Competency-based education <u>does not</u> replace a requirement for discipline- oriented training

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4. Challenge faced in Europe to achieve harmonisation of EEC member countries

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The European Economic Area

Free movement of business, services and workers throughout western Europe

Special regulations on dentistry provide for the mutual recognition of dental qualifications in all 25 member states + Iceland, Liechtenstein and Norway = European Economic Area (EEA) + Switzerland

EU Dental directive

- A piece of European legislation which is addressed to member states
- Once passed at the European level, each member states must ensure that it is effectively applied in their legal system
- A directive prescribes an end result. The form and methods of the application is a matter for each member state to decide for itself
- In principle, a directive takes effect through national implementing measures (national legislation) ³⁹

Recognition of qualifications in EU/EEA

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- EU/EEA dental qualifications held by the nationals of EU/EEA countries are recognised in each member state
- Dentists are therefore able to practise throughout the EU and EEA
- Primary dental qualification is needed (eg BDS/LDS)
- Dentists must register with the regulatory authority of the country in which they wish to work
- The regulatory authority in the country registers or licenses practise.

The EU directive does not hinder member countries to register dentists from other countries. E.g. UK:

Dental licensure in U.K. per 2004

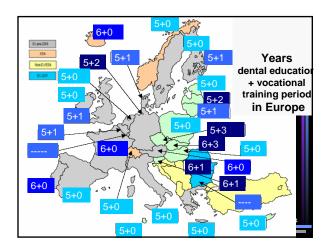
EU/EEA nationals with EU/EEA dental qualifications

- Eligible for registration by GDC
- Once registered, practise without restriction in the UK.
- A language requirement for working in the NHS General Dental Service
 EU/EEA nationals are not required to undertake vocational training for NHS practice unless they have graduated from a UK dental school.
- NHS practice unless they have graduated from a UK dental school. Austria, Italy, Spain, Australia, Hong Kong, Malaysia (1950 - 1962 and U. of Malaya 1997-2000 only), Malta (only up to 1978), New Zealand.
- Singapore and most South African dental schools.

 Special regulations
- Other countries
- Not eligible for registration.
- Must either acquire a UK qualification (the Bachelor of Dental Surgery) or pass the GDC's International Qualifying Examination

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	Change of dental curriculums in EU							
	Austria	curr. 19982004						
	Czeck republic	2004						
	Estonia	2002						
	Hungary	1996						
	Latvia	1993						
	Lithuania	1994						
	Poland	2002						
	Romania	2003						
		43						







	Educ (yrs)	Train.	Dentist :pop.	Mandal CDE	
Austria	6	0	2000	· ·	
Belgium	5	1	1350	10	
Cyprus		0	1100	•	
The Czech Republic	5	3	1500	•	
Denmark	5	1440h	1100	•	
Estonia	5	0	1400	•	
Finland	5	9m	1100	•	
France	6	0	1500	•	
Germany	5	2	1300	Dis.	
Greece	5	0	900	•	
Hungary	5	0 (2:2004)	2000	50	
Iceland	6	0	1000	•	
Ireland	5	0	2200	•	
Italy	5	0	1200	Dis.	
Latvia	5	2	1500	50	
Lithuania	5	1	1100	40	
Luxembourg		0	1500	Dis.	
Malta	5	0	2700	•	
The Netherlands	5	0	2100	•	
Norway	5	0	1100	•	
Poland	5	1	1550	Dis.	
Portugal	6	0	2200	Dis	
Romania	6	1	2500	40	
Slovakia	6	3	1700	5d	
Slovenia	6	1	1500	1.5c	
Spain	5	0	2600	•	15
Sweden	5	0	1200		45
Switzerland	5	0	1600	10d	
The United Kingdom	1.5	1	2100	50	

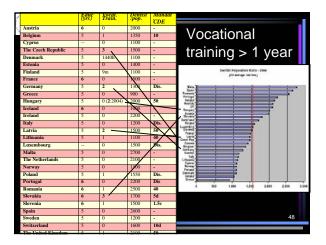


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Austria	6	0	2000		
Belgium	5	1	1350	10	
Cyprus		0	1100	•	
The Czech Republic	5	3	1500	•	
Denmark	5	1440h	1100	•	
Estonia	5	0	1400	•	
Finland	5	9m	1100	•	Dentist Population Ratio - 2004 (DF average and Ever)
France	6	0	1500	•	
Germany	5	2	1300	Dis.	
Greece	5	0	900	•	Participal Control of
Hungary	5	0 (2:2004)	2000	50	And A Control of Contr
Iceland	6	0	1000	•	New york
Ireland	5	0	2200	•	
Italy	5	0	1200	Dis.	
Latvia	5	2	1500	50	Transferrer Contraction
Lithuania	5	1	1100	40	Convi Tep
Luxembourg		0	1500	Dis.	
Malta	5	0	2700	•	
The Netherlands	5	0	2100	•	La constante de
Norway	5	0	1100	•	
Poland	5	1	1550	Dis.	
Portugal	6	0	2200	Dis	9 No 1400 1400 2400 2500 200
Romania	6	1	2500	40	4 800 Line Line 1.000 1.000 1.000
Slovakia	6	3	1700	5d	
Slovenia	6	1	1500	1.5c	
Spain	5	0	2600	•	
Sweden	5	0	1200	•	46
Switzerland	5	0	1600	10d	
The United Kingdom	5	1	2100	50	



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Austria	6	0	2000	-	
Belgium	5	1	1350	10	
Cyprus		2	1100	•	6 years education
The Czech Republic	5	3	1500	•	
Denmark	5	1440h	1100	•	education
Estonia	5	0	1400	-	
Finland	5	9m	1100	•	Dentist Population Ratio - 2004 (Drawings and Dav)
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Greece	5	0	900	· \	
Hungary	5	0 (2:2004)	2000	50	
Iceland	6	0	1000	· //	
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Latvia	5		1500	50	
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Luxembourg		0		Dis	
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Poland	5 /	177	1550	Dis.	
Portugal	67	1	2200	Dis	0 300 1.000 1.000 2.000 2.000 2.000
Romania	61	1	2500	40	
Slovakia	6/	3	1700	5d	
Slovenia	6/	1	1500	1.5c	
Spain	5	0	2600	•	
Sweden	5	0	1200	•	47
Switzerland	5	0	1600	10d	
The United Vingdom	15	1	2100	50	







2	Educ (yrs)	Yocal. Train.	Dentist :pop.	Mandal CDE	
Austria	6	0	2000	•	
Belgium	5	1	1350	10	Education +
Cyprus		0	1100	•	
The Czech Republic	5	3	1500	•	vocational train
Denmark	5	1440h	1100	•	
Estonia	5	0	1400	•	> G VIC
Finland	5	9m	1100	•	>6 yrs
France	6	0	1500	•	
Germany	5	2	1500	Dis.	Dentist Population Ratio - 2004
Greece	5	0	900	•	(DD and age and line)
Hungary	5	0 (2:2004)	2000	50	
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Poland Portugal	6		11	Dis.	Line and Lin
Portugal Romania	6	- //	2500	Dis 40	
Romania	6	3	2500	40 5d	
Slovakia Slovenia	6	3 1/	1500	50 1.5c	
Slovenia Spain	5	0	2600	1.50	0 300 1,000 1,000 2,000 2,000 3,000
Span Sweden	5	0	1200		49
Switzerland	5	0	1200	10d	70
Switzerland The United Kingdom	3	0	2100	100	
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